

Lower Granite
WA0026794

Agency	Contact	Outfall #
USACE, Walla Walla	Don Redman	1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12
		13

Need more info on:

Background

Generally speaking:

Summary:

Level of difficulty:

Level of information:

Outfall description

drainage sump

unwatering sump

generator cooling water unit 1

generator cooling water unit 2

generator cooling water unit 3

generator cooling water unit 4

generator cooling water unit 5

generator cooling water unit 6

heat pump non-contact cooling water

adult fish trap discharge

CNO sump discharge (2 pumps with two discharges from one sump)

JFF Conex Lab discharge

JFF WET Lab Discharge

monitoring data in XL sheet; info on Outfalls 11-13; other pollutants of concern
for adult fish trap, fish ladder, locks, irrigation, anesthetizing baths
TSS, COD, TOC, ammonia
higher levels of BOD and other pollutants different from other hydros
13 outfalls grouped in sumps, non-contact cooling water, **fish ladder, locks,
anesthetizing agents**
average-high;

Pollutants Detected

TSS, oil and grease, COD, TOC, ammonia

TSS, TOC, ammonia

TSS, COD, TOC, ammonia

BOD, TSS, COD, TOC, ammonia

BOD, TSS, COD, TOC, ammonia

no info but operator believes similar to discharges from outfalls 3 and 4

no info but operator believes similar to discharges from outfalls 3 and 5

no info but operator believes similar to discharges from outfalls 3 and 6

BOD, TSS, COD, TOC, ammonia

BOD, TSS, COD, TOC, ammonia

BOD, TSS, oil and grease, COD, TOC, ammonia

no info

BOD, COD, TOC, ammonia

Notes

highest concentrations; when adult fish trap is in use, constant flow of water through system; periodically, holding tanks with MS-222 are drained into this line

anesthetizing baths - MS-222 is discharged when in use.
March to October, with discharges from anesthetizing baths;
contains MS-222.

Little Goose
WA0026786

Need info on:
Most significant discharges from locks

Summary:
Level of difficulty:

Agency	Contact	Outfall #	Outfall description
USACE, Walla Walla	Don Redman	1	drainage sump
		2	unwatering pump
		3	heat pump outfall
		4	emergency diesel generator cooling water
		5	Cooling water discharge unit 1
		6	Cooling water discharge unit 2
		7	Cooling water discharge unit 3
		8	Cooling water discharge unit 4
		9	Cooling water discharge unit 5
		10	Cooling water discharge unit 6
		11	North shore diesel generator drain
		12	north shore sump pump #2 drain
		13	navigation lock fill valve sump
		14	visitors center A.C drain
		15	Navigation lock drainage
		16	juvenile fish facility discharge from wet lab

XL spreadsheet monitoring data, locks

16 outfalls grouped in sumps, non-contact cooling water, **fish ladder, locks, anesthetizing agent in outfall 16**

Average-high

Pollutants Detected

TSS, oil and grease, COD, TOC, ammonia

TSS, oil and grease, COD, TOC, ammonia

TSS, COD, TOC, ammonia

TOC, ammonia

BOD, TSS, Oil and grease, COD, TOC, ammonia

BOD, TSS, Oil and grease, COD, TOC, ammonia

BOD, TSS, Oil and grease, COD, TOC, ammonia

BOD, TSS, Oil and grease, COD, TOC, ammonia

BOD, TSS, Oil and grease, COD, TOC, ammonia

BOD, TSS, Oil and grease, COD, TOC, ammonia

TSS, Oil and grease, TOC

oil and grease, TOC, ammonia

BOD, TSS, TRC, Oil and grease, COD, TOC, ammonia

oil and grease, TOC, ammonia

BOD, TSS, TRC, Oil and grease, COD, TOC, ammonia

BOD, TSS, TRC, Oil and grease, COD, TOC, ammonia

Notes

Rcvs drainage from various sources, estimated flow rate
Drains water from several places

small amounts; rarely in use

all cooling water discharges are substantially the same

no samples taken, but notes in outfalls 5 and 6 indicate
that discharge quality of outfalls 5-10 are virtually the
same

small amounts; rarely in use

pump is rarely operated
drains potable water from AC unit
highest levels of all outfalls

low but detectable concentrations, MS-222 in discharges

Lower Monumental
WA0026808

Need more info on:
Largest values

Summary:
Level of difficulty:

Agency	Contact	Outfall #	Outfall description
USACE, Walla Walla	Don Redman	1	drainage sump
		2	unwatering sump
		3	heat pump
		4	emergency diesel generator cooling discharge
		5	generator cooling water unit 1
		6	generator cooling water unit 2
		7	generator cooling water unit 3
		8	generator cooling water unit 4
		9	generator cooling water unit 5
		10	generator cooling water unit 6
		11	Transformer tailwater discharge
		12	Anesthetizing tanks
		13	Holding tanks

XL spreadsheet with data; questions on outfall 11 - notes in application say that discharges may go to drainage sump; fish holding tanks for BOD

13 outfalls grouped in sumps, non-contact cooling water, **anesthetizing tanks**
average

Pollutants Detected

TSS, COD, TOC

TSS, TOC

BOD, TSS, COD, TOC

TSS, oil and grease, TOC, ammonia

no info but similar discharges from outfalls 5-10

no info but similar discharges from outfalls 5-11

TSS, TOC

TSS, TOC

no info but similar discharges from outfalls 5-10

no info but similar discharges from outfalls 5-10

TSS, TRC, oil and grease, TOC

BOD, TSS, COD, TOC, ammonia

TSS, COD, TOC, Ammonia

Notes

collects water from various sources; runs very little in summer and continuously in winter
regularly collects extra water from drainage sump overflow in winter
runs continuously in summer and winter and intermittently in spring and fall

Unclear from application whether this is still operational or all discharges going to drainage sump pump
juvenile fish passage; high BOD (30 mg/L)
juvenile fish passage; low BOD in application

Ice Harbor
WA0026816

Need info on:

Summary:
Level of difficulty:

Agency	Contact	Outfall #	Outfall description
USACE, Walla Walla	Don Redman	1	drainage sump
		2	unwatering sump
			North non-overflow drainage sump
		3	discharge
			South fish pumphouse unwatering
		4	sump discharge
			MU 1 Air Cooler non-contact cooling
		5	water
			MU1 Thrust bearing non-contact
		6	cooling water
			MU2 Air Cooler non-contact cooling
		7	water
			MU2 Thrust bearing non-contact
		8	cooling water
			MU3 Air Cooler non-contact cooling
		9	water
			MU3 Thrust bearing non-contact
		10	cooling water
		11	MU4 Non-contact cooling water
		12	MU5 Non-contact cooling water
		13	MU6 Non-contact cooling water
		14	Drainage and unwater sump discharge
		15	HVAC discharge
		16	Transformer Cool 1-1
		17	Transformer Cool 1-2
		18	Transformer Cool 2-1
		19	Transformer Cool 2-2
		20	Transformer Cool 3-1

XL spreadsheet with data, fish ladder, locks,
outfalls 11-13,

21 outfalls grouped in sumps, non-contact
cooling water; questions on fish ladder and locks,

fish pumphouse

average-high

Pollutants Detected

Notes

TSS, TOC

Nav lock pump 3, info in permit

BOD, TSS, TRC, Oil and grease, COD, TOC

Navlock Pump 4

TSS, TOC

Navlock pump 8

TSS, TOC

Pump 9

TSS, TOC

Discharges from 6, 8, 10 are the same

TSS, TOC

Discharges from 5, 7, 9 are the same

no info, but operator believes discharges from
5,7,9 are the same

no info but operator believes similar to
discharges from outfalls 6,8, and 10 are the same
no info, but operator believes discharges from
5,7,9 are the same

no info but operator believes similar to
discharges from outfalls 6,8, and 10 are the same
no info but operator believes similar to
discharges from outfalls 11-13 are the same
no info but operator believes similar to
discharges from outfalls 11-13 are the same
no info but operator believes similar to
discharges from outfalls 11-13 are the same

no info

no info

no info

TSS, oil and grease, TOC

BOD, TSS, COD, TOC

TSS, TOC, Ammonia

TSS, TOC

no info, but operator believes discharges from 16-
21 are similar

no info, but operator believes discharges from 16-
21 are similar

no info, but operator believes discharges from 16-
21 are similar

21 Transformer Cool 3-2

no info, but operator believes discharges from 16-
21 are similar

McNary

WA0026824

Need info on:

Summary:
Level of difficulty:

Agency	Contact	Outfall #	Outfall description
USACE, Walla Walla District	Don Redman	21	Navigation Lock Upstream Sump
		22	Navigation Lock Downstream Sump

any XL spreadsheet data

2 outfalls on WA side , **no fish tanks**

Easier

Pollutants Detected

BOD, TSS, COD, TOC, Ammonia

BOD, TSS, oil and grease, COD, TOC, Ammonia

Notes

3 sump pumps, floor drains, and joint leakage

2 sump pumps, floor drains, roof drains, joint leakage; intermittent

John Day
WA0026832

Need more info on:
Background
Generally speaking:
Summary:
Level of difficulty:
Level of information:

Agency	Contact	Outfall #	Outfall description
USACE, Portland	Ken Duncan	18	MU15 Non-contact cooling water
		19	MU 16 Non-contact Cooling Water
		20	Unwatering Sump Pump 3
		21	Unwatering Sump Pump 4
		23	CNO Pumps 9, 10, 11
		26	Spillway Drainage SumpPumps 8, 8A
		27	Nav Lock Fill Valve Tainter 4
		28	Nav Lock Drainage Sump 3
		29	Nav Lock Pump 4
		43	Powerhouse HVAC Cooling Water

any XL spreadsheet with more pollutant info

TSS, COD, TOC, Ammonia

10 outfalls with **no fish tank discharges**

easier

Pollutants Detected

ND for oil and grease

TSS, TOC, Ammonia

TSS, TOC

unable to sample

TOC

TOC

no water at time of sampling

BOD, TSS, TOC

TOC, ammonia

TSS, TOC

Notes

Nav lock drains sump 3 discharge wastewater originates in the fish pump pits and drain valves (tainter valves) 1 and 2
discharge water originates from uplift drains and expansion joints

The Dalles

Information needed

WA0026701

Summary:

Level of difficulty:

Background

Agency	Contact	Outfall #	Outfall description
USACE, Portland	Ken Duncan	1	Unwatering sump
		2	Drainage sump
		3	MU 1&2 Non-Contact Cooling Water
		4	MU 3&4 Non-Contact Cooling Water
		5	MU 5&6 Non-Contact Cooling Water
		6	MU 7&8 Non-Contact Cooling Water
		7	MU 9&10 Non-Contact Cooling Water
		8	MU 11&12 Non-Contact Cooling Water
		9	MU 13&14 Non-Contact Cooling Water
		10	MU 15&16 Non-Contact Cooling Water
		11	MU 17&18 Non-Contact Cooling Water
		12	MU 19&20 Non-Contact Cooling Water
		13	MU 21&22 Non-Contact Cooling Water
		14	<i>Fish Units 1 & 2 Cooling Water</i>
		15	<i>South Spillway Sump</i>
		16	<i>North Spillway Sump</i>
		17	Navigation Lock Drainage Sump
		18	Transformer Cooling Water #1
		19	Transformer Cooling Water #2
		20	Transformer Cooling Water #3
		21	Transformer Cooling Water #4
		22	Transformer Cooling Water #5
		23	Transformer Cooling Water #6
		24	Transformer Cooling Water #7
		25	Transformer Cooling Water #8
		26	Transformer Cooling Water #9
		27	Transformer Cooling Water #10
		28	Transformer Cooling Water #11
		29	Transformer Cooling Water #12
		30	Transformer Cooling Water #13
		31	Transformer Cooling Water #14
		32	Station Service 01 & 02 Cooling Water
		33	Transformer T04 Cooling Water

Any monitoring data or info on
Outfalls 4 -32; XL spreadsheets with
monitoring data; (check out info on
other operations, e.g., fish ladders)
34 outfalls grouped in sumps, non-
contact cooling water
average-high

TOC

Pollutants Detected

COD, TOC, Ammonia, TSS
COD, TOC, TSS
COD, TOC, TSS

Notes

34 outfalls are in Washington non-contact cooling water,

TOC

34 Transformer T01 Cooling Water

TOC

Bonneville

Need info on:

WA0026778

Summary:

Level of difficulty:

Agency	Contact	Outfall #	Outfall description
USACE, Portland	Ken Duncan	1	<i>Fish Unit #2 Non-contact cooling water</i>
		2	<i>Fish Unit #1 Non-contact cooling water</i>
		3	CAC2
		4a	MU18 Non-Contact Cooling Water
		4b	MU 18 Thrust Bearing Cooling Water
		5a	MU17 Non-Contact Cooling Water
		5b	MU 17 Thrust Bearing Cooling Water
		6a	MU16 Non-Contact Cooling Water
		6b	MU 16 Thrust Bearing Cooling Water
		7a	MU15 Non-Contact Cooling Water
		7b	MU 15 Thrust Bearing Cooling Water
		8a	MU14 Non-Contact Cooling Water
		8b	MU 14 Thrust Bearing Cooling Water
		9a	MU13 Non-Contact Cooling Water
		9b	MU 13 Thrust Bearing Cooling Water
		10a	MU12 Non-Contact Cooling Water
		10b	MU 12 Thrust Bearing Cooling Water
		11a	MU11 Non-Contact Cooling Water
		11b	MU 11 Thrust Bearing Cooling Water
		12	OWS
		13	CAC1
		14	Unwatering Sump
		15	Drainage Sump

XL spreadsheet with data sets; fish ladder info - operations and monitoring

23 outfalls grouped in sumps, non-contact cooling water, **fish units**
average-high

Pollutants Detected

oil and grease, TSS, TOC

TSS, TOC,

TSS, TOC,

TSS, TOC,

TSS, TOC, ammonia

TSS, TOC

TSS, TOC

TOC

BOD, TOC

TSS, TOC

TSS, TOC

BOD, TSS, TOC

BOD, TSS, TOC

TSS, TOC

BOD, TSS, TOC

TSS, TOC

TSS, TOC

none

none

TSS

TSS, TOC

TSS

TSS, TOC

Notes

23 outfalls are in Washington

includes fish ladder -check out conditions

Grand Coulee

WA0026867

Agency	Contact	Outfall #
Idaho BOR		1
		2
		3
		4a
		4b
		5
		6
		7
		8
		8b
		9a
		9b
		10
		11

Permittee also seeking coverage for

Need info on:

Summary:

Level of difficulty:

Outfall description

Pump/Generating Plant Sump

Left Powerhouse Transformer Desk Sump

Left Powerhouse Sump

Left Powerhouse Generator Three (G-3), G-8, Cooling water

Main Dam Galleries

Right Powerhouse Transformer Deck Sump

Right Power House Sump

Right Power House G-11, G-16 cooling water

Third Power plant transformer deck sump

Third Power Plant Sump

Third Power Plant G-19, G-24 Cooling water

wicket gates

line service units

unwatering sump

XL spreadsheet with data sets;fecal source in ourfalls 2 and 3

14 outfalls, three additional coverage, **no fish tanks, fecal detected**
easier

Pollutants Detected

BOD, TRC, TOC, ammonia

Fecal, TRC, TOC, ammonia

Fecal, TRC, TOC

Fecal, TRC, TOC, ammonia

Fecal, TRC, TOC

Fecal, TRC, TOC

Fecal, TRC, TOC

BOD, Fecal, TRC, TOC

Fecal, TRC, TOC

Fecal, TRC, Ammonia

Fecal, TRC, TOC

Fecal, TOC

BOD, Fecal, oil and grease, COD, TOC

Fecal, TRC

oil and grease

Check Outfall 4A for similar pollutants

permittee considers water from unwatering sump same as influent and unchanged in discharge

Notes

low conc of fecal but detectable

low conc of fecal but detectable

low conc of fecal but detectable

highest levels of fecal (51 mg/L)